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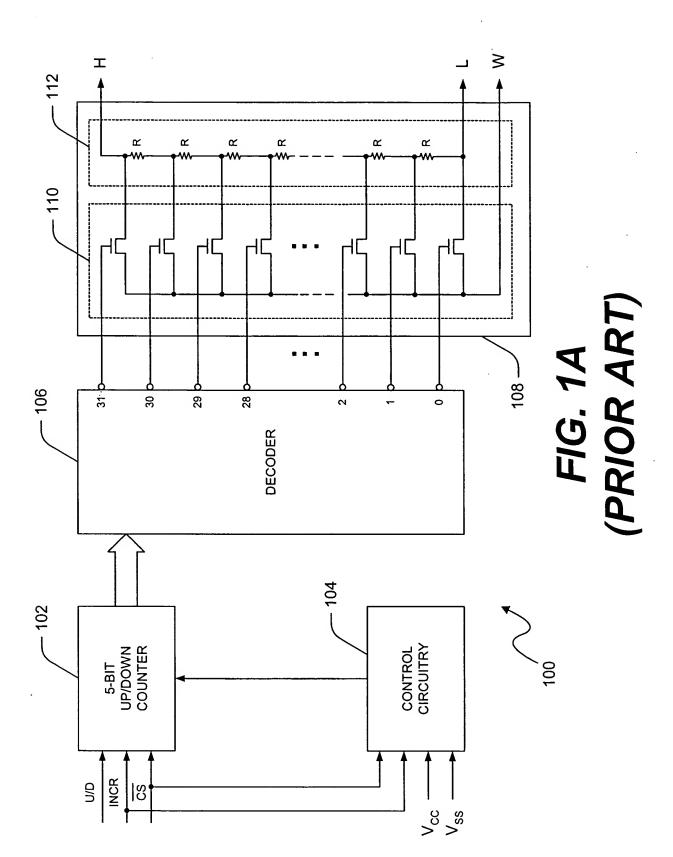
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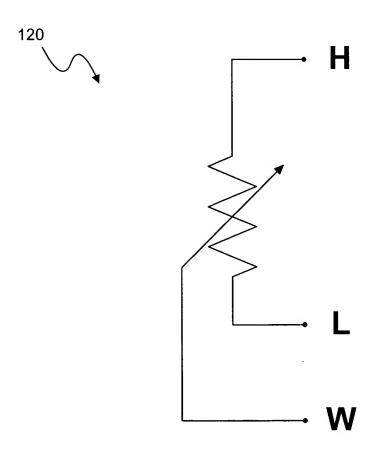
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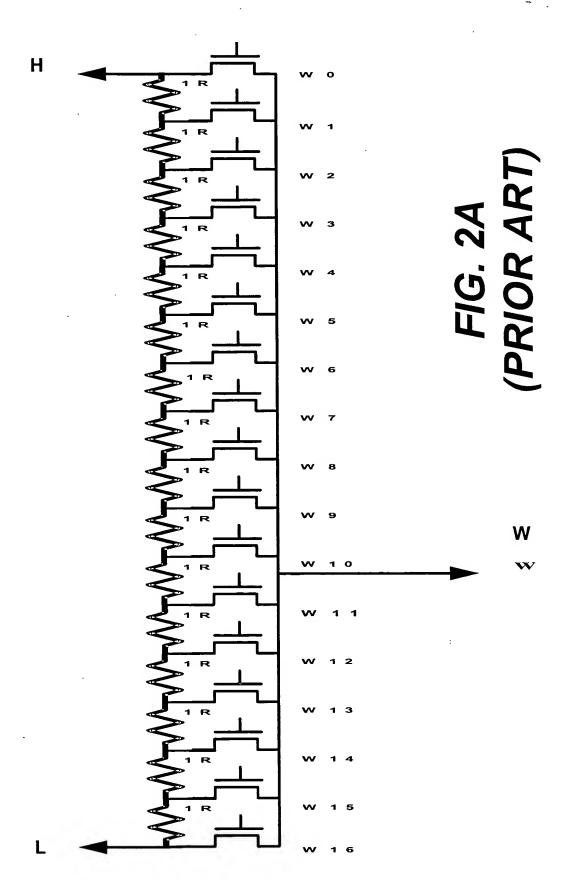


## FIG. 1B (PRIOR ART)

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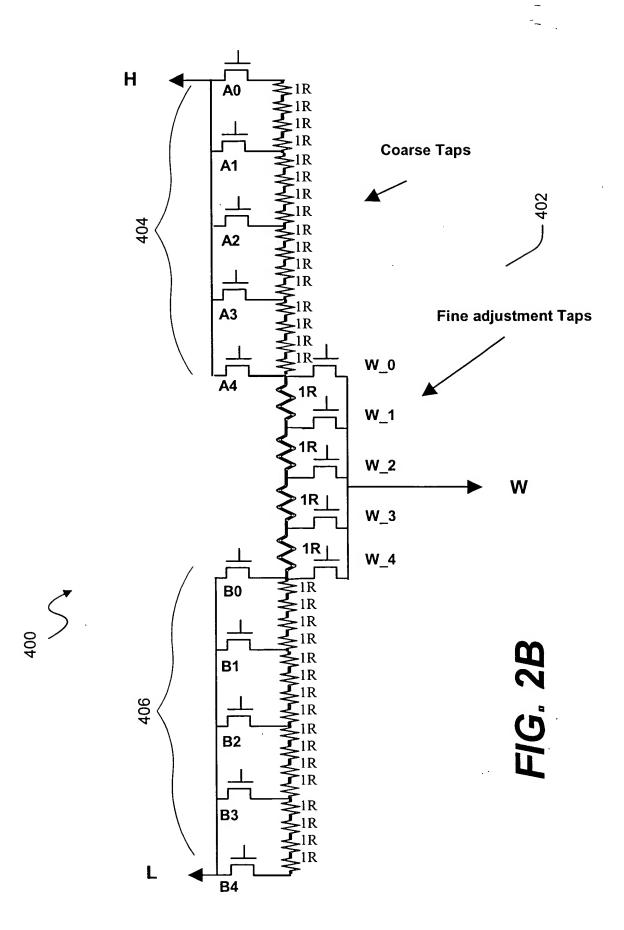
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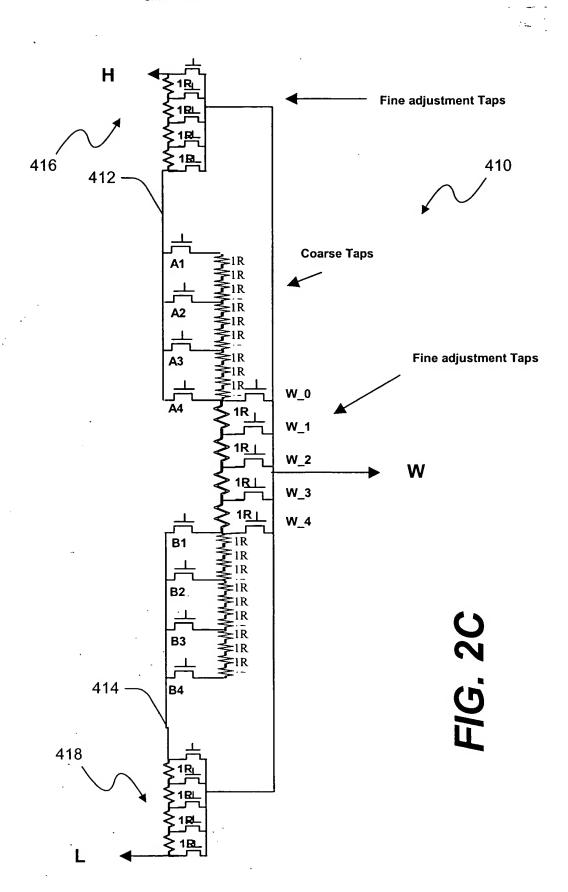


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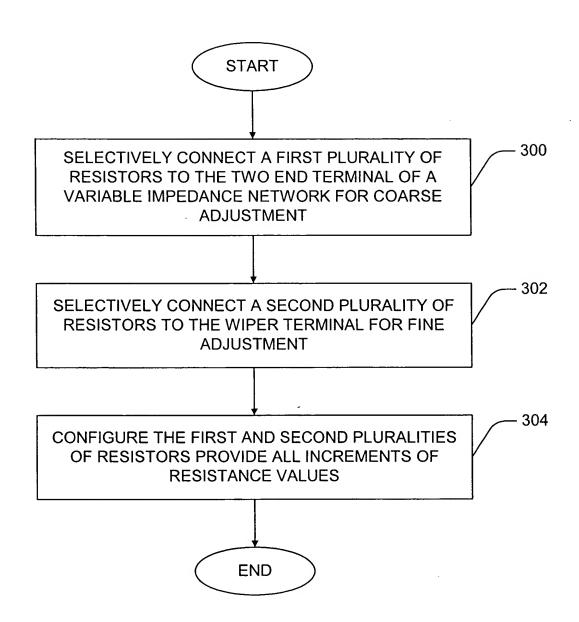


FIG. 3

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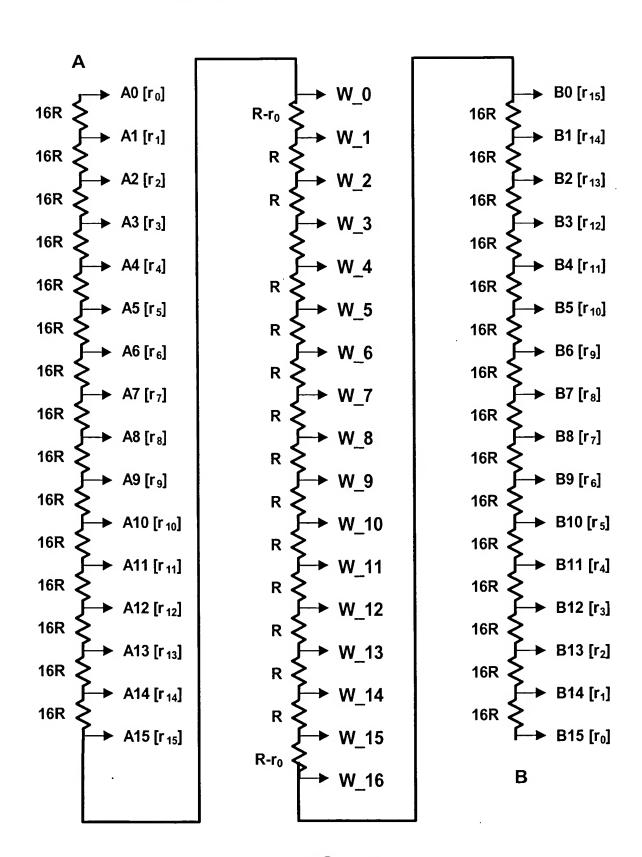


FIG. 4

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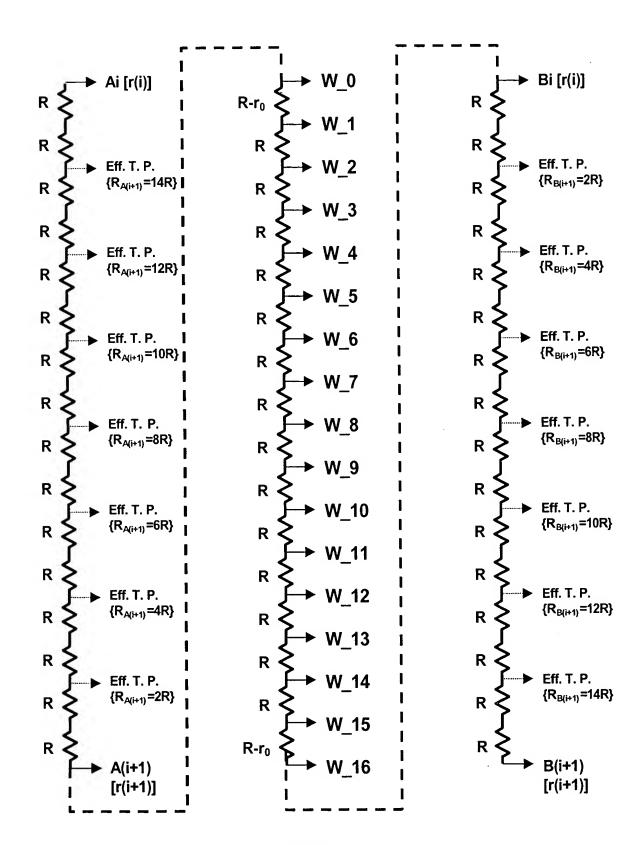


FIG. 5

40 51.0 Fapping Position/Effective T. P. 50.5 Wiper Voltage (%) 50.0 \$\text{def} \text{def} \text{ 20 49.5 49.0 40 60 80 0 20 Time (unit) - A-Effective tapping - → · · Wiper Voltage (%)

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- ·W-tapping point

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**B-Effective tapping** 

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FIG. 6